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FILE 'CAPLUS' ENTERED AT 14:54:32 ON 20 MAR 2001  
L1 55 S PHENOL OXIDIZING ENZYME  
L2 2 S L1 AND STACHYBOTRYS PARVISPORA

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=> s phenol oxidizing enzyme

```
      134184 PHENOL
      71859 OXIDIZING
      555862 ENZYME
L1      55 PHENOL OXIDIZING ENZYME
      (PHENOL(W)OXIDIZING(W)ENZYME)
```

=> l1 and Stachybotrys parvispora

L1 IS NOT A RECOGNIZED COMMAND

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=> s l1 and Stachybotrys parvispora

```
      396 STACHYBOTRYS
      24 PARVISPORA
      11 STACHYBOTRYS PARVISPORA
      (STACHYBOTRYS(W)PARVISPORA)
L2      2 L1 AND STACHYBOTRYS PARVISPORA
```

=> d l2 all

```
L2  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2001 ACS
AN  2001:7563  CAPLUS
DN  134:68041
TI  Cloning, characterization and industrial uses of phenol oxidizing enzymes
```

IN from Stachybotrys  
 PA Wang, Huaming  
 PA Genencor International, Inc., USA  
 SO U.S., 24 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C12N009-02  
 ICS C12N015-00; C12P021-06; C07H021-02  
 NCL 435189000  
 CC 7-2 (Enzymes)  
 Section cross-reference(s): 3, 10, 43, 46  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6168936	B1	20010102	US 1999-401476	19990922
AB	<p>Disclosed herein are novel phenol oxidizing enzymes naturally-produced by strains of the species <i>Stachybotrys</i> which possess a pH optima in the alk. range and which are useful in modifying the color assocd. with dyes and colored compds., as well as in anti-dye transfer applications such as stain removers. Also disclosed herein are biol.-pure cultures of strains of the genus <i>Stachybotrys</i>, designated herein <b>Stachybotrys parvispora</b> MUCL 38996 and <i>Stachybotrys chartarum</i> MUCL 38898, which are capable of naturally-producing the novel phenol oxidizing enzymes. Disclosed herein is the amino acid and nucleic acid sequence for <i>Stachybotrys chartarum</i> phenol oxidase B as well as expression vectors and host cells comprising the nucleic acid. Disclosed herein are methods for producing the <b>phenol oxidizing enzyme</b> as well as methods for constructing expression hosts.</p>				
ST	<p><i>Stachybotrys</i> <b>phenol oxidizing enzyme</b> color modification; phenol oxidase <i>Stachybotrys</i> sequence stain remover</p>				
IT	<p>Detergents (bleaching; cloning, characterization and industrial uses of phenol oxidizing enzymes from <i>Stachybotrys</i>)</p>				
IT	<p>DNA sequences Molecular cloning Plasmid vectors Protein sequences <i>Stachybotrys</i> <i>Stachybotrys bisbyi</i> <i>Stachybotrys chartarum</i> <i>Stachybotrys cylindrospora</i> <i>Stachybotrys dichroa</i> <i>Stachybotrys kampalensis</i> <i>Stachybotrys nilagirica</i> <i>Stachybotrys oenanthes</i> <b><i>Stachybotrys parvispora</i></b> <i>Stachybotrys theobromae</i> cDNA sequences (cloning, characterization and industrial uses of phenol oxidizing enzymes from <i>Stachybotrys</i>)</p>				
IT	<p>Coloring materials Dyes (modifications of; cloning, characterization and industrial uses of phenol oxidizing enzymes from <i>Stachybotrys</i>)</p>				
IT	<p>Enzymes, biological studies RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); MOA (Modifier or additive use); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses) (phenol oxidizing; cloning, characterization and industrial uses of phenol oxidizing enzymes from <i>Stachybotrys</i>)</p>				
IT	<p><i>Aspergillus</i> <i>Aspergillus awamori</i> <i>Bacillus</i> (bacterium genus) <i>Bacteria</i> (Eubacteria) <i>Escherichia</i></p>				

Filamentous fungi  
 Hansenula  
 Kluyveromyces  
 Mucor  
 Pichia  
 Saccharomyces  
 Saccharomyces cerevisiae  
 Schizosaccharomyces  
 Trichoderma  
 Trichoderma reesei  
 Yarrowia  
 Yeast  
 (recombinant expression host; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT Gene, microbial  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL  
 (Biological study); USES (Uses)  
 (spoB; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT Detergents  
 (stain removers; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315722-59-9P  
 RL: BPN (Biosynthetic preparation); MOA (Modifier or additive use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (amino acid sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 9002-10-2P, Phenol oxidase  
 RL: BPN (Biosynthetic preparation); MOA (Modifier or additive use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315722-57-7 315722-58-8  
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL  
 (Biological study); USES (Uses)  
 (nucleotide sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315726-51-3 315726-52-4  
 RL: PRP (Properties)  
 (unclaimed nucleotide sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 151381-46-3 315726-53-5  
 RL: PRP (Properties)  
 (unclaimed protein sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315661-70-2 315661-71-3  
 RL: PRP (Properties)  
 (unclaimed sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

Filamentous fungi  
Hansenula  
Kluyveromyces  
Mucor  
Pichia  
Saccharomyces  
Saccharomyces cerevisiae  
Schizosaccharomyces  
Trichoderma  
Trichoderma reesei  
Yarrowia  
Yeast  
(recombinant expression host; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT Gene, microbial  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL  
(Biological study); USES (Uses)  
(spoB; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT Detergents  
(stain removers; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315722-59-9P  
RL: BPN (Biosynthetic preparation); MOA (Modifier or additive use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(amino acid sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 9002-10-2P, Phenol oxidase  
RL: BPN (Biosynthetic preparation); MOA (Modifier or additive use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315722-57-7 315722-58-8  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL  
(Biological study); USES (Uses)  
(nucleotide sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315726-51-3 315726-52-4  
RL: PRP (Properties)  
(unclaimed nucleotide sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 151381-46-3 315726-53-5  
RL: PRP (Properties)  
(unclaimed protein sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

IT 315661-70-2 315661-71-3  
RL: PRP (Properties)  
(unclaimed sequence; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)

=> d 12 2 all

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS  
AN 1999:626312 CAPLUS  
DN 131:254318  
TI **Phenol-oxidizing enzyme** from Stachybotrys  
IN Amory, Antoine; Wang, Huaming; Dhase, Patrick; Lambrechts-Rongvaux, Annick; Wang, Cynthia  
PA Genencor International, Inc., USA  
SO PCT Int. Appl., 64 pp.

CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C12N009-02  
 ICS C12N015-53; C12N015-80; C12P021-00  
 CC 7-2 (Enzymes)  
 Section cross-reference(s): 3, 10, 41, 43, 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9949020	A2	19990930	WO 1999-US6327	19990323
	WO 9949020	A3	19991125		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	WO 9949010	A2	19990930	WO 1999-EP2042	19990323
	WO 9949010	A3	19991229		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9931114	A1	19991018	AU 1999-31114	19990323
	AU 9935995	A1	19991018	AU 1999-35995	19990323
	BR 9909012	A	20001128	BR 1999-9012	19990323
	BR 9909043	A	20001205	BR 1999-9043	19990323
	EP 1064359	A2	20010103	EP 1999-912837	19990323
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI			
	EP 1066364	A2	20010110	EP 1999-917861	19990323
	R:	DE, ES, FR, GB, IT			
PRAI	US 1998-46969		19980324		
	US 1998-218702		19981222		
	US 1999-273957		19990322		
	WO 1999-EP2042		19990323		
	WO 1999-US6327		19990323		

AB Disclosed herein are phenol oxidizing enzymes obtainable from species of *Stachybotrys* which are useful in modifying the color assocd. with dyes and

colored compds., as well as in anti-dye transfer applications. Also disclosed herein are biol.-pure cultures of strains of the genus *Stachybotrys*, designated herein ***Stachybotrys parvispora*** MUCL 38996 and *Stachybotrys chartarum* MUCL 38898, which are capable of naturally-producing the novel phenol oxidizing enzymes. Disclosed herein is the amino acid and nucleic acid sequence for *Stachybotrys* phenol oxidizing enzymes as well as expression vectors and host cells comprising the nucleic acid. Disclosed herein are methods for producing the **phenol oxidizing enzyme** as well as methods for constructing expression hosts. Disclosed herein are enzyme compns. comprising phenol oxidizing enzymes obtainable from species of *Stachybotrys*. Based on their color-modifying ability, phenol-oxidizing enzymes of the present invention can be used, for example, for pulp and paper bleaching, for bleaching the color of stains on fabric, and for anti-dye transfer in detergent and textile applications.

ST **phenol oxidizing enzyme** *Stachybotrys*;  
 sequence **phenol oxidizing enzyme** cDNA gene  
*Stachybotrys*; bleaching **phenol oxidizing**

**enzyme** Stachybotrys; textile bleaching **phenol oxidizing enzyme** Stachybotrys; dye bleaching **phenol oxidizing enzyme** Stachybotrys; paper bleaching **phenol oxidizing enzyme** Stachybotrys

IT Detergents  
     (bleaching; **phenol-oxidizing enzyme** from Stachybotrys)

IT cDNA sequences  
     (for **phenol-oxidizing enzyme** from Stachybotrys chartarum)

IT Detergents  
     (laundry; **phenol-oxidizing enzyme** from Stachybotrys)

IT DNA sequences  
     (of gene encoding **phenol-oxidizing enzyme** from Stachybotrys chartarum)

IT Protein sequences  
     (of **phenol-oxidizing enzyme** from Stachybotrys chartarum)

IT Coloring materials  
     Dyes  
     Molecular cloning  
     Plasmid vectors  
     Pulp bleaching  
     Stachybotrys  
     Stachybotrys bisbyi  
     Stachybotrys chartarum  
     Stachybotrys cylindrospora  
     Stachybotrys dichroa  
     Stachybotrys kampalensis  
     Stachybotrys nilagirica  
     Stachybotrys oenanthes  
     **Stachybotrys parvispora**  
     Stachybotrys theobromae  
         (**phenol-oxidizing enzyme** from Stachybotrys)

IT Enzymes, biological studies  
     RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); MOA (Modifier or additive use); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)  
         (**phenol-oxidizing enzyme** from Stachybotrys)

IT Aspergillus  
     Aspergillus awamori  
     Bacillus (bacterium genus)  
     Bacteria (Eubacteria)  
     Escherichia  
     Filamentous fungi  
     Hansenula  
     Kluyveromyces  
     Mucor  
     Pichia  
     Saccharomyces  
     Saccharomyces cerevisiae  
     Schizosaccharomyces  
     Trichoderma  
     Trichoderma reesei  
     Yarrowia  
     Yeast  
         (recombinant expression host; **phenol-oxidizing enzyme** from Stachybotrys)

IT 6406-01-5, C.I. Direct Red 21  
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
         (C.I. Direct Red 21; **phenol-oxidizing**



enzyme from Stachybotrys)  
 IT 2610-05-1, Direct Blue 1  
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
 (Chicago Sky Blue 6B; **phenol-oxidizing**  
 enzyme from Stachybotrys)  
 IT 245053-35-4P  
 RL: BAC (Biological activity or effector, except adverse); BPN  
 (Biosynthetic preparation); MOA (Modifier or additive use); PRP  
 (Properties); PUR (Purification or recovery); BIOL (Biological study);  
 PREP (Preparation); USES (Uses)  
 (amino acid sequence; **phenol-oxidizing**  
 enzyme from Stachybotrys)  
 IT 245053-33-2 245053-34-3  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
 (Biological study)  
 (nucleotide sequence; **phenol-oxidizing**  
 enzyme from Stachybotrys)  
 IT 72-57-1, Direct Blue 14 90-05-1, 2-Methoxyphenol 91-10-1,  
 2,6-Dimethoxyphenol 314-13-6, Direct Blue 53 573-58-0, Direct Red 28  
 1937-34-4, Direct Red 79 3351-05-1, Acid Blue 113 4399-55-7, Direct  
 Blue 71 6656-03-7, Direct Blue 98 14414-32-5, Syringaldazine  
 16727-30-3, Malvin 17095-24-8, Reactive Black 5 28752-68-3, ABTS  
 71872-76-9 149315-82-2, Cibacron Blue C-R 244778-03-8, Cibacron Blue  
 GN-E  
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
 (**phenol-oxidizing enzyme** from  
 Stachybotrys)  
 IT 151381-46-3 244773-32-8 245054-53-9 245054-54-0 245054-55-1  
 245054-56-2 245054-58-4 245054-59-5 245054-60-8 245054-61-9  
 245054-63-1  
 RL: PRP (Properties)  
 (unclaimed sequence; **phenol-oxidizing**  
 enzyme from Stachybotrys)

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NEWS 4 Oct 27 SET ABBREVIATIONS and SET PLURALS extended in  
Derwent World Patents Index files  
NEWS 5 Oct 27 Patent Assignee Code Dictionary now available  
in Derwent Patent Files  
NEWS 6 Oct 27 Plasdoc Key Serials Dictionary and Echoing added to  
Derwent Subscriber Files WPIDS and WPIX  
NEWS 7 Nov 29 Derwent announces further increase in updates for DWPI  
NEWS 8 Dec 5 French Multi-Disciplinary Database PASCAL Now on STN  
NEWS 9 Dec 5 Trademarks on STN - New DEMAS and EUMAS Files  
NEWS 10 Dec 15 2001 STN Pricing  
NEWS 11 Dec 17 Merged CEABA-VTB for chemical engineering and  
biotechnology  
NEWS 12 Dec 17 Corrosion Abstracts on STN  
NEWS 13 Dec 17 SYNTHLINE from Prous Science now available on STN  
NEWS 14 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
NEWS 15 Jan 05 AIDSLINE is being removed from STN  
NEWS 16 Feb 06 Engineering Information Encompass files have new names  
NEWS 17 Feb 16 TOXLINE no longer being updated  
  
NEWS EXPRESS FREE UPGRADE 5.0e FOR STN EXPRESS 5.0 WITH DISCOVER!  
(WINDOWS) NOW AVAILABLE  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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NEWS LOGIN Welcome Banner and News Items  
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=> file CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

from Stachybotrys  
 IN Wang, Huaming  
 PA Genencor International, Inc., USA  
 SO U.S., 24 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C12N009-02  
 ICS C12N015-00; C12P021-06; C07H021-02  
 NCL 435189000  
 CC 7-2 (Enzymes)  
 Section cross-reference(s): 3, 10, 43, 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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AB	<p>Disclosed herein are novel phenol oxidizing enzymes naturally-produced by strains of the species Stachybotrys which possess a pH optima in the alk. range and which are useful in modifying the color assocd. with dyes and colored compds., as well as in anti-dye transfer applications such as stain removers. Also disclosed herein are biol.-pure cultures of strains of the genus Stachybotrys, designated herein <b>Stachybotrys parvispora</b> MUCL 38996 and Stachybotrys chartarum MUCL 38898, which are capable of naturally-producing the novel phenol oxidizing enzymes. Disclosed herein is the amino acid and nucleic acid sequence for Stachybotrys chartarum phenol oxidase B as well as expression vectors and host cells comprising the nucleic acid. Disclosed herein are methods for producing the <b>phenol oxidizing enzyme</b> as well as methods for constructing expression hosts.</p>				
ST	Stachybotrys <b>phenol oxidizing enzyme</b> color modification; phenol oxidase Stachybotrys sequence stain remover				
IT	<p>Detergents          (bleaching; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)</p>				
IT	<p>DNA sequences          Molecular cloning          Plasmid vectors          Protein sequences          Stachybotrys          Stachybotrys bisbyi          Stachybotrys chartarum          Stachybotrys cylindrospora          Stachybotrys dichroa          Stachybotrys kampalensis          Stachybotrys nilagirica          Stachybotrys oenantes  <b>Stachybotrys parvispora</b>          Stachybotrys theobromae          cDNA sequences          (cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)</p>				
IT	<p>Coloring materials          Dyes          (modifications of; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)</p>				
IT	<p>Enzymes, biological studies          RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); MOA (Modifier or additive use); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)          (phenol oxidizing; cloning, characterization and industrial uses of phenol oxidizing enzymes from Stachybotrys)</p>				
IT	<p>Aspergillus          Aspergillus awamori          Bacillus (bacterium genus)          Bacteria (Eubacteria)          Escherichia</p>				



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Team: OIPEBackFileIndexing  
Dossier: 09273957

Legal Date: 03-22-2001

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